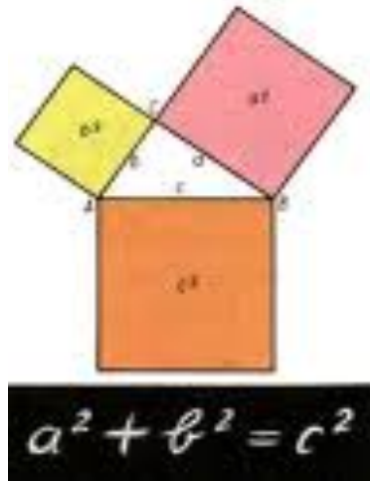


# PYTHAGAREAN THEOREM

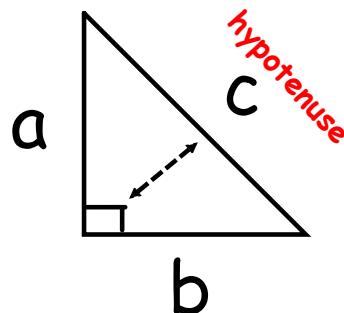
## Lesson 3



Sep 22-9:41 PM

## RIGHT ANGLES

- Longest side is the **hypotenuse**, side  $c$  (opposite the  $90^\circ$  angle)
- The other two sides are the **legs**, sides  $a$  and  $b$
- Pythagoras developed a formula for finding the length of the sides of any **right** triangle

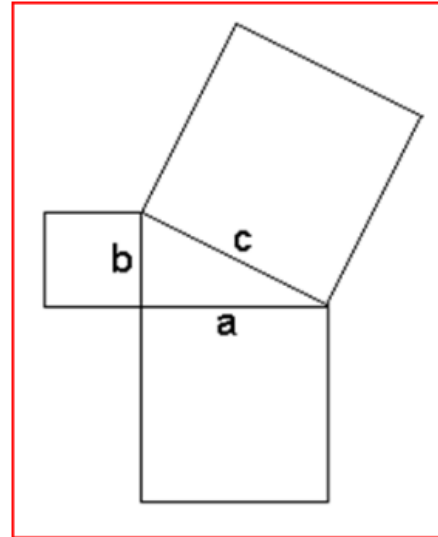


Sep 30-11:31 AM

# The Pythagorean Theorem

"For any right triangle, the sum of the areas of the two small squares is equal to the area of the larger."

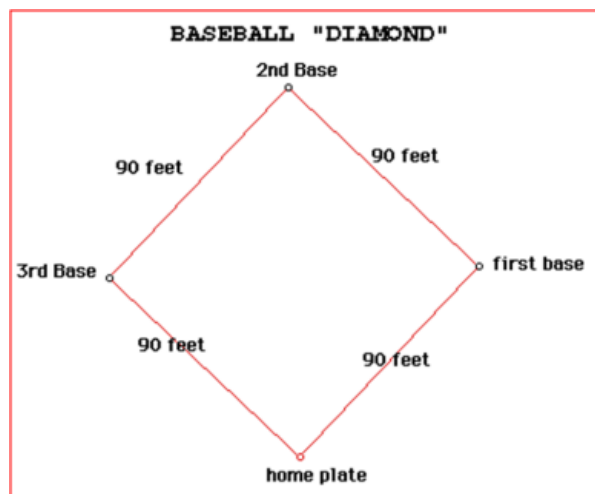
$$a^2 + b^2 = c^2$$



Sep 30-11:35 AM

## Baseball Problem

The distance between consecutive bases is 90feet. How far does a catcher have to throw the ball from home plate to second base?



Sep 30-11:38 AM

## Ladder Problem

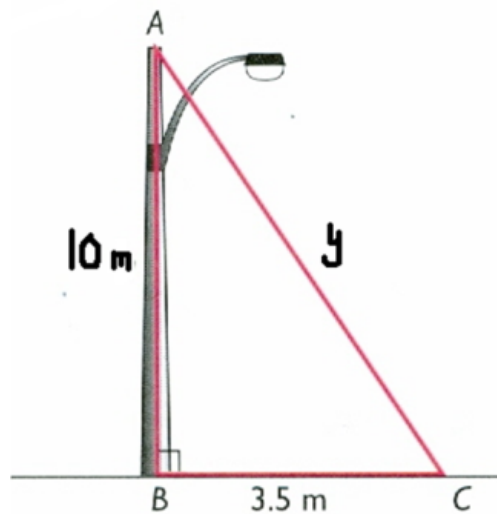
A ladder leans against a second-story window of a house. If the ladder is 25 meters long, and the base of the ladder is 7 meters from the house, how high is the window?



Sep 30-11:41 AM

## YOU TRY

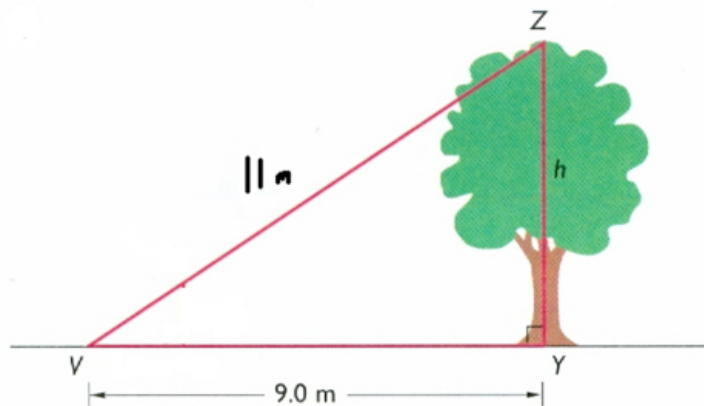
Find the Distance from point A to point C given the following information.



Sep 30-11:44 AM

## YOU TRY

Find the height of the tree given the following information



Sep 30-11:44 AM

### Practice

Complete Lesson 3 worksheet

Sep 22-9:33 PM